

particular, the May 2002 Office Action stated that support had not been provided in the specification for SEQ ID NOs: 9, 10, and 17.

In the April 2001 Office Action, Examiner M. Shibuya requested that support for the amendments filed on February 10, 2001, pertaining to sequence ID numbers, be pointed out. In the response filed December 10, 2001, applicant pointed to locations in the specification for sequences corresponding to SEQ ID NOs: 4, 19, 9, 10, 17, and 18 (see page 3 of the response).

Because the response was nonetheless considered not fully responsive, following are detailed descriptions of the SEQ ID NOs. entered in the amendment of February 10, 2001 (i.e., SEQ ID NOs: 4, 6, 19, 9, 10, 17, and 18), and how they correlate with the specification. Citations refer to the specification of U.S. Patent No. 5,654,413, the subject of the present reissue application.

The Examiner is first referred to the Table of "Wn" subunits at column 7 of U.S. 5,654,413:

TABLE I

Word:	W1	W2	W3	W4
Sequence:	GATT	TGAT	TAGA	TTTG
Word:	W5	W6	W7	W8
Sequence:	GTAA	AGTA	ATGT	AAAG

- SEQ ID NO: 4, at col 15, line 21: "5' - [G,W,W,W]<sub>9</sub> TGG-linker-microparticle" is represented in the Sequence Listing as:  
dddddddddd ddddddddddd ddddddddddd ddddddttgg

As stated in the specification at col 15, lines 11-19:

"... "[W,W,W,C]<sub>9</sub>" represents the sequence of an oligonucleotide tag of nine subunits of four nucleotides each, and "[W,W,W,C]" represents the subunit sequences listed above, i.e. "W" represents T or A....the complement attached to a microparticle could have the form:

5'-[G,W,W,W]<sub>9</sub> TGG-linker-microparticle "

Each [G,W,W,W] therefore includes one G and the remainder either A or T, although the order can vary. Therefore, the segment [G,W,W,W]<sub>9</sub> is represented by a string of 36 "d"s, where d represents A, T, or G.

- SEQ ID NO: 6, at col 15, line 28: 5' -NRRGATCYNN-3'

is represented in the Sequence Listing as:

nrrgatcynn n

which is identical and therefore self explanatory.

- SEQ ID NO: 19, at col 15, line 37: RCGACCA [C, W, W, W]<sub>9</sub>GGT [T]<sub>19</sub>

is represented in the Sequence Listing as:

rcgaccahhh hhhhhhhhhh hhhhhhhhhh hhhhhhhhhh hhhggttttt  
tttttttttt tttt

As noted above, W represents T or A. Each [C,W,W,W] therefore includes one C and the remainder either A or T, although the order can vary. Therefore, the segment [C,W,W,W]<sub>9</sub> is represented by a string of 36 "h"s, where h represents A, T, or C.

- SEQ ID NO: 9, at col 24, line 1: TCGACC (w<sub>1</sub>) (w<sub>2</sub>) (w<sub>3</sub>) (w<sub>4</sub>) (w<sub>5</sub>) (w<sub>6</sub>) (w<sub>7</sub>) (w<sub>8</sub>) (w<sub>1</sub>) A

is represented in the Sequence Listing as:

tcgacc gatt tgat taga ttg gtaa agta atgt aaag gatt a  
(w<sub>1</sub>) (w<sub>2</sub>) (w<sub>3</sub>) (w<sub>4</sub>) (w<sub>5</sub>) (w<sub>6</sub>) (w<sub>7</sub>) (w<sub>8</sub>) (w<sub>1</sub>)

As can be seen, each of the "words" represented by w<sub>1</sub>, w<sub>2</sub>, etc., correlates with the definitions given in Table I, reproduced above.

- SEQ ID NO: 10, at col 24, line 6: TCGACC (w<sub>6</sub>) (w<sub>7</sub>) (w<sub>8</sub>) (w<sub>1</sub>) (w<sub>2</sub>) (w<sub>6</sub>) (w<sub>4</sub>) (w<sub>2</sub>) (w<sub>1</sub>) A

is represented in the Sequence Listing as:

tcgacc agta atgt aaag gatt tgat agta ttg tgat gatt a  
(w<sub>6</sub>) (w<sub>7</sub>) (w<sub>8</sub>) (w<sub>1</sub>) (w<sub>2</sub>) (w<sub>6</sub>) (w<sub>4</sub>) (w<sub>2</sub>) (w<sub>1</sub>)

As can be seen, each of the "words" represented by w<sub>6</sub>, w<sub>7</sub>, etc., correlates with the definitions given in Table I, reproduced above.

- SEQ ID NO: 17, at col 24, line 11: TCGACC (w<sub>3</sub>) (w<sub>2</sub>) (w<sub>1</sub>) (w<sub>1</sub>) (w<sub>5</sub>) (w<sub>8</sub>) (w<sub>8</sub>) (w<sub>4</sub>) (w<sub>4</sub>) A

is represented in the Sequence Listing as:

tcgacc taga tgat gatt gatt gtaa aaag aaag ttg ttg a  
(w<sub>3</sub>) (w<sub>2</sub>) (w<sub>1</sub>) (w<sub>1</sub>) (w<sub>5</sub>) (w<sub>8</sub>) (w<sub>8</sub>) (w<sub>4</sub>) (w<sub>4</sub>)

Again, each of the "words" represented by  $w_3$ ,  $w_2$ , etc., correlates with the definitions given in Table I, reproduced above.

• SEQ ID NO: 18, at col 25, line 26: GGGCC ( $w_1$ ) ( $w_1$ ) ( $w_1$ ) ( $w_1$ ) ( $w_1$ ) ( $w_1$ ) ( $w_1$ ) ( $w_1$ ) ( $w_1$ ) A  
is represented in the Sequence Listing as:  
gggccddddd dddddddddd dddddddddd dddddddddd da

As stated in the specification at col 25, line 8, the subunits  $w_i$  are "4-mers corresponding to the subunits of Table I". Each subunit  $w_i$  therefore consists of G, A, and T, although the order can vary. Therefore, the series of nine ( $w_i$ )'s is represented by a string of 36 "d"s, where d represents A, T, or G.

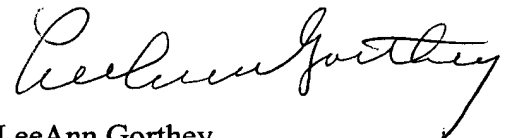
The applicant has provided detailed descriptions of how the sequences added in the amendment of February 10, 2001 are supported in the specification. The perceived omissions in the response of December 10, 2001 are thus fully rectified.

No fees are believed necessary with this communication. However, the Commissioner is hereby authorized and requested to charge any deficiency in fees herein to Deposit Account No. 50-2207.

Date: 6-20-02

**Correspondence Address:**  
PAYOR NUMBER 22918  
PHONE: (650) 838-4403  
FAX: (650) 838-4350

Respectfully submitted,



LeeAnn Gorthey  
Registration No. 37,337